



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,091	08/13/2007	Joseph J. Fitzgerald	200406552-4	4743

22879 7590 11/03/2009
HEWLETT-PACKARD COMPANY
Intellectual Property Administration
3404 E. Harmony Road
Mail Stop 35
FORT COLLINS, CO 80528

EXAMINER

SURYAWANSHI, SURESH

ART UNIT	PAPER NUMBER
----------	--------------

2115

NOTIFICATION DATE	DELIVERY MODE
-------------------	---------------

11/03/2009

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

JERRY.SHORMA@HP.COM
ipa.mail@hp.com
laura.m.clark@hp.com

Office Action Summary	Application No. 10/578,091	Applicant(s) FITZGERALD ET AL.	
	Examiner SURESH K. SURYAWANSHI	Art Unit 2115	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 August 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 May 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>5/3/06</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-17 are presented for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-2, 4-6 and 8-16 are rejected under 35 U.S.C. 102(b) as being anticipated by David et al (US Patent 5,948,101; hereinafter David).

4. As per claim 1, David discloses a method for provisioning a target computer with an operating system, the method comprising the steps of:

booting the target computer in a pre-operating system environment [col. 4, lines 32-37; booting begins];

collecting configuration information for the target computer [col. 4, 32-67; the program reads information relevant to the boot process from OMC 37; more specifically, head unit serial number 41 and hardware information from OMC are read];

Art Unit: 2115

transmitting the configuration information to a predetermined server [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12; the program reads information relevant to the boot process from OMC 37; more specifically, head unit serial number 41 and hardware information from OMC are read and sent to OMCLBSVR];

searching a database in the server for a pre-existing operating system image corresponding to the configuration information from the target computer [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12; a database is searched];

if a corresponding operating system image is found, transferring the pre-existing operating system image to the target computer [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12; the boot image is transmitted to OMC]; and

installing the pre-existing operating system image on the target computer [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12; OMC boots therefrom].

5. As per claim 6, David discloses a system for provisioning an operating system on target computers over a network, the system comprising:

at least one target computer configured to respond to initialization by requesting a network address for communication over the network, respond to receiving the network address

Art Unit: 2115

by requesting a boot file over the network, respond to receiving the boot file by executing the boot file in a pre-operating system environment to create a client agent, where the client agent is configured to perform an inventory of the target computer to collect configuration data and transmit the configuration data in a request for an operating system image to a predetermined server, the client agent being further configured to receive an operating system image and, responsive thereto, install the operating system image on the target computer and execute the operating system [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12];

a network address server configured to monitor the network for the request for a network address and, responsive thereto, allocate the network address for communication over the network and return it to the requesting device [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12];

a boot server configured to monitor the network for the request for the boot file and, responsive thereto, transmit the boot file to the requester [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12]; and

an operating system management server configured to monitor the network for the request for an operating system image, receive the request along with the configuration data, use the configuration data to search for a corresponding operating system image and, if the corresponding operating system image is found, transmit the corresponding operating system image to the target computer [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12].

Art Unit: 2115

6. As per claim 12, David discloses method for determining an operating system for target computers over a network the method comprising the steps of:

booting a target computer in a pre-operating system environment [col. 4, lines 32-37; booting begins];

collecting policy criteria data for the target computer [col. 4, 32-67; the program reads information relevant to the boot process from OMC 37; more specifically, head unit serial number 41 and hardware information from OMC are read];

transmitting the policy criteria data to an operating system management server [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12; the program reads information relevant to the boot process from OMC 37; more specifically, head unit serial number 41 and hardware information from OMC are read and sent to OMCLBSVR];

providing policy data defining a relationship between specific policy criteria data instances and operating system image instances [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12; a database is searched];

resolving an appropriate operating system image for the target computer based on the policy criteria data from the target computer and the policy information [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12; the boot image is transmitted to OMC]; and

transmitting to the target computer an operating system object identifier corresponding to the resolved operating system image [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12; OMC boots therefrom].

7. As per claim 16, David discloses a system for installing an operating system on a target computer using a network, the system comprising:

means for collecting configuration information for the target computer in a pre-operating system environment [col. 4, lines 32-37; booting begins];

means for requesting download of an operating system image that corresponds to the configuration information for the target computer [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12; boot request];

Art Unit: 2115

means for identifying an operating system image that corresponds to the configuration information from the target computer [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12; database is searched for the corresponding image];

means for downloading an operating system image that corresponds to the configuration information from the target computer if the corresponding operating system image is found [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12; the image is transferred to OMC]; and

means for installing and executing the corresponding operating system image on the target computer [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12; OMC boots therefrom].

8. As per claim 2, David discloses that if no corresponding pre-existing operating system image is found, constructing an operating system image for the target computer using the configuration information [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12]; transferring the constructed operating system image to the target computer [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12]; installing the constructed operating system image on the target computer [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12]; and storing the constructed operating system image and the configuration data in the database in the server [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12].

Art Unit: 2115

9. As per claims 4, 10 and 15, David discloses the configuration data includes at least one of a microprocessor identifier, a blade slot location, a memory size, a storage disk size, a manufacturer identifier, a model identifier, a network location identifier, a role identifier, a network interface card identifier, a bus identifier, a user identifier, electronically inscribed identification information, and a storage device identifier [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12].

10. As per claims 5 and 11, David discloses that the configuration information includes policy criteria data corresponding to the target computer [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12].

11. As per claim 8, David discloses that the operating system management server is further configured, when no corresponding operating system image is found, to construct an operating system image based on the configuration data from the target computer and transmit the constructed operating system image to the target computer [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12; inherent to the server provided the operating system image].

12. As per claim 9, David discloses that the client agent on the target computer is further configured to collect user input for inclusion in the configuration data [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12].

Art Unit: 2115

13. As per claim 13, David discloses comprising the steps of: receiving the operating system object identifier corresponding to the resolved operating system image in the target computer [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12]; requesting download of the operating system image file corresponding to the operating system object identifier [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12]; and installing the operating system image and executing the operating system responsive to receiving the operating system image file in the target computer [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12].

14. As per claim 14, David discloses comprising the steps of: receiving the operating system object identifier corresponding to the resolved operating system image in the target computer [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12]; checking whether the operating system object identifier corresponds to an operating system currently installed on the target computer [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12]; if the operating system object identifier does not correspond to the operating system currently installed on the target computer, requesting download of the operating system image file corresponding to the operating system object identifier, receiving the operating system image file in the target computer, installing the operating system image, and executing the operating system [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12]; and if the operating system object identifier does correspond to the operating system currently installed on the target computer, executing the operating system currently installed on the target computer [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12].

Art Unit: 2115

Claim Rejections - 35 USC § 103

15. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

16. Claims 3, 7 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over David et al (US Patent 5,948,101; hereinafter David) in view of Burkhardt et al (US Patent 6,993,642; hereinafter Burkhardt).

17. As per claim 17, David discloses a method for constructing a set of operating system images for a target computer, the method comprising the steps of:

booting the target computer in a pre-operating system environment [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12];

collecting configuration information for the target computer [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12];

transmitting the configuration information to a predetermined server [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12];

Art Unit: 2115

searching a database in the server for a set of pre-existing operating system images corresponding to the configuration information from the target computer [col. 4, lines 32-67; col. 5, lines 15-23; col. 6, lines 6-12].

David does not disclose about running install script. However, Burkhardt clearly discloses how one can utilize a script to install an operating system on a computer [col. 2, lines 41-47; col. 4, lines 22-29, 65-67; col. 5, lines 18-22; col. 12, lines 26-57; col. 15, lines 22-45; col. 16, lines 54-59; col. 17, lines 3-18]. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the cited references as both are directed for installing an operating system on a target computer.

18. As per claims 3 and 7, David discloses the invention substantially. David does not disclose about running install script. However, Burkhardt clearly discloses how one can utilize a script to install an operating system on a computer [col. 2, lines 41-47; col. 4, lines 22-29, 65-67; col. 5, lines 18-22; col. 12, lines 26-57; col. 15, lines 22-45; col. 16, lines 54-59; col. 17, lines 3-18]. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the cited references as both are directed for installing an operating system on a target computer.

Art Unit: 2115

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SURESH K. SURYAWANSHI whose telephone number is (571)272-3668. The examiner can normally be reached on 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas C. Lee can be reached on 571-272-3667. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Suresh K Suryawanshi/
Primary Examiner, Art Unit 2115